

BREATHING RESIN FILM

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Abstract

PURPOSE: To obtain the title film which is useful as a packaging material or liquid-sealing material such as hygienic napkin because of its excellent elastic recovery and high nerve by drawing a film made of a resin composition comprising a specifically constituted resin and a specific amount of inorganic filler under specific conditions.

CONSTITUTION: 100 pts.wt. of the resin composition containing (A) 50-99wt.% of ethylene-alpha-olefin copolymer of 0.01-20g/10min MFR, 0.860-0.925g/cm³ density prepared by copolymerization of 40-98wt.% of ethylene and 60-2wt.% of an alpha-olefin of 3 to 30 carbon atoms using a metallocene catalyst, (B) 50 to 1wt.% of an ethylenic resin of 0.01-20g/10min MFR, 0.880-0.935g/cm³ density are mixed with 25 to 500 pts.wt. of an inorganic filler of less than 10µm average particle size, 0.1-0.7g/cm³ and the composition is made into film. Then, the resin film is drawn at a temperature lower than the melting point of component A to give the objective film of 1,800-30,000g/m². 24 hours moisture permeability.

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